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Database :
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Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                 Minimum DB seq length: 0
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                                                                                                                                                                                                                                                                                                                                                                                                                 Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence:
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Perfect score:
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                                                                                                                                                              SPTREMBL_16:*
1: sp_archea:*
2: sp_bacteria:*
3: sp_fungi:*
    5:
6:
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110:
111:
112:
113:
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Gapop 10.0 , Gapext 0.5
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1121
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GenCore version 4.5 Copyright (c) 1993 - 2000 Compugen Ltd.
                                                                     sp_organelle:*
sp_phage:*
                                                                                                    sp_mammal:*
sp_mhc:*
                                                                                                                                                  sp_human:*
                                                                                                                                    sp_invertebrate:*
sp_unclassified:*
sp_vertebrate:*
sp_virus:*
                                                       sp_plant:*
                                              sp_rodent:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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19	18	17:	16	15	14	13	12	11	10	9	8	7	6	σ	4	ω	2	1	No.	Result	
267	278.5	285	291	298	307	340	341	341.5	343	345.5	346	348.5	351	369.5	392	415	427.5	881	Score		
23.8	24.8	25.4	26.0	26.6	27.4	30.3	30.4	30.5	30.6	30.8	30.9	31.1	31.3	33.0	35.0	37.0	38.1	78.6	Match	Query	ð
114	104	103	107	99	107	298	108	107	108	109	108	109	108	109	101	97	106	214	Length	Query	
4	11	11	11	11	11	11	4	4.	4	4	4	4	4	4	11	11	σ	11	DB.		
Q9UL80	Q9JL82	Q9JL80	Q9ERZ9	Q9JL74	Q9JL84	Q9QYF0	Q9UL83	Q9UL81	Q9UL79	Q9UL85	Q9UL70	Q9UL86	Q9UL77	Q9UL78	Q9JL78	Q9JL76	Q9U410	Q9R1A5	Ü		
homo	mus	Q9j180 mus musculu	Q9erz9 mus musculu		mus	mus	OMO	OMO	OMO	OMO	OMO	Q9u186 homo sapien		OMO	mus	Q9j176 mus musculu	Q9u410 schistosoma	Q9rla5 mus musculu	Description		

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15.8 15.4 15.4	15.9 15.8	16.3	16.7	17.0	17.2	17.3	17.4	17.4	17.6	17.7	17.8	18.1	18.2	18.2	18.2	20.4	21.2	23.4
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Q9NQK8 Q9Y4U9 Q90545	Q9NPP6 Q90544 Q9P1W8	070426 09QWI5	P97710	Q9R1A4	Q9H1U5	Q9Y4V0	000241	008907	Q9ET13	Q9UIJ6	Q90524	P78324	P97797	Q9QX57	Q90529	Q9UL82	Q9NSD6	Q9N0W5
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Q9nqk8 homo sapien Q9y4u9 homo sapien Q90545 ginglymostc	Q9npp6 homo sapien Q90544 ginglymosto Q9p1w8 homo sapien	070426 rattus norv	P97710 rattus norv	mus	Q9hlu5 homo sapien	Q9y4v0 homo sap	000241 homo sar	008907 mus musculu	Q9et13 mus mus	Q9uij6 homo sar	Q90524 ginglyn	P78324 homo sap	P97797 mus musculu	Q9qx57 mus mus	Q90529 ginglymostc	Q9u182 homo sapien		Q9n0w5 oryctolagus

ALIGNMENTS

OSPALAS; OPRIAS; O1-MAY-2000 (TIEMBLIEL 13, Created) O1-MAY-2000 (TIEMBLIEL 13, Last sequence update) O1-MAY-2000 (TIEMBLIEL 13, Last annotation update) O1-MAY-2000 (MAB 7) (FAGMENT) WILL RESPONSE (MAD 7) (FAGMENT) WILL RESPONSE (MAY-1090) WILL RESPONSE (MAY-1090) WILL RESPONSE (MAY-1099) WILL RES
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Best Local Similarity
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Q9JL76;
01-OCT-2000
                                                                                                                                                                                                                                                                                                                                 NON_TER
SEQUENCE
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Q9U410;
                                                               01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
ANTI-MYOSIN IMMUNOGLOBULIN LIGHT CHAIN VARIABLE REGION
SEQUENCE FROM N.A
                                Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                        Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                 ProDom; PD000600; -; SMART; SM00406; IGv;
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InterPro; IPR003006; -.
InterPro; IPR003596; -.
InterPro; IPR003596; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Schistosoma japonicum.
Submitted (NOV-1999) t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Song X.T., Feng Z.Q., Qiu Z.N., Li Y.Q., Huang H.L., "Amplification, cloning and sequence analysis of the variable region gene of monoclonal anti-idiotypic an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VARIABLE REGION (FRAGMENT).
Schistosoma japonicum (Blood fluke).
Eukaryota, Metazoa, Platyhelminthes, Rhabditophora,
Trematoda; Digenea; Strigeidida; Schistosomatoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
MONOCLONAL ANTI-IDIOTYPIC ANTIBODY NP30 IMMUNOGLOBULIN LIGHT CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Schistosoma
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106 AA;
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                                                                                                                           PRELIMINARY;
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                                Chordata;
Rodentia;
                                                                                                                                                                                                                                                                                                                                11478 MW;
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79.6%;
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Pred. No. 1.4
                              Craniata; Vertebrata; Sciurognathi; Muridae;
                                                                                                                           PRT;
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                                Muridae;
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the light
antibody
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                                           Euteleostomi;
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Schistosomatidae;
                                Murinae;
                                                                   (FRAGMENT).
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Matches 77
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Best Local Similarity
Matches 83; Conser
                                                                                                                                                                                                                                                                   Walkiel S., Liao L., Cunningham M.W., Diamond B.;
"Characterization of cross-reactive monoclonal anti-myosin/anti-n-
acetyl-glucosamine antibodies from mice with autoimmune myocarditis.";
Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.

EMBL; AF206028; AAF69326.1; -.
InterPro; IPR003306; -.
Pfam; PF00047; ig; 1.
SMART; SM00406; IGV; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q9JI78 PRELIMINARY; PRT; 101 AA.

(99IJ78;
01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
ANTI-MYOSIN IMMUNOGLOBULIN LIGHT CHAIN VARIABLE REG
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; E
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
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InterPro; IPR003006; -.
InterPro; IPR003596; -.
Pfam; PF00047; ig; 1.
SMART; SM00406; IGV; 1.
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"Characterization of cross-reactive monoclonal anti-myosin/anti-n-
acetyl-glucosamine antibodies from mice with autoimmune myocarditis.";
submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                       STRAIN=A.CA;
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                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=10090;
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                                                              SYSLTISSVEAEDAATYYCQQYSGY--RTFGGGTKLEIK 107
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Pred. No. 1.7e-27;
3; Mismatches 12;
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Pred. No. 1.
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                                                                                                                                                                    Indels
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Q9UL78

PRELIMINARY;

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NON_TER
SEQUENCE
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01-MAY-2000
01-MAR-2001
                                                                                                                                         SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
MEDLINE-98277139; PubMed-9614934;
Wn X., Liu B., Van der Merwe P.L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
MEDLINE-98277139; PubMed-9614934;
MEDLINE-98277139; PubMed-9614934;
MEDLINE-98277139; PubMed-9614934;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                              EMBL; AF035037; AA HSSP; P01607; 1REI
                                                                                                        Clin.
                                                                                                                                                                                                                                         01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation updat
          NON_TER
                     Pfam; PF00047; SMART; SM00406
                                                   InterPro; IPR003006; -.
                                                                                                                                                                                        Mammalia; Eutheria;
NCBI_TaxID=9606;
                                                                                                                                                                                                             Eukaryota; Metazoa;
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SMART; SM00406; IGv; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Clin.
                                         InterPro;
                                                                                                                                        Young D.C.;
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                                                                                                                   tetus.
                                                                                                                            "Myosin-reactive autoantibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Myosin-reactive autoantibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MYOSIN-REACTIVE IMMUNOGLOBULIN LIGHT
                                                                                             ·! - SIMILARITY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro;
                                                                                                                                                                                                                                                                                                                                          61
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                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
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                                                                                                                                                                                                                                                                                                                                                                                                         -
                                                                                    DOMAIN.
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                                                                                                                                                                                                                                                                                                                                         DRFSGSGSGTDFTLTISRLEPEDCAVYCQQYGSSPLTFGGGTKVEIKR
                                                                                                                                                                                                                                                                                                                                                  ARESGSGSTSYSLTISSVEAEDAATYYCQQY-SGYRTFGGGTKLEIKR 108
                                                                                                                                                                                                                                                                                                                                                                                           ENVLTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVP 60
                                                                                                                                                                                                                                                                                                                                                                                 EIVLTQSPGTLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRATGIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         P01789;
                                                                                                        Immunol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AF035036;
                   SM00406;
                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity 66.7
72; Conservative
                  : IPR003596; -
30047; ig; 1.
400406; IGv; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IPR003006; -. IPR003596; -.
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109 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (TrEMBLrel. 13, Created)
(TrEMBLrel. 13, Last sequence update)
(TrEMBLrel. 16, Last annotation update)
 108
                                                                                                                                                                                                                                                                                      PRELIMINARY;
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                                                                                                       Immunopathol.
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                                                                       AAD56273.1;
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11646
108
                                                                                             IMMUNOGLOBULIN
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                                                                                                                                                                                                   Primates; Catarrhini;
                                                                                                                                                                                                            Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                                                     33.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 369.5;
Pred. No. 1.
                                                                                                       87:184-192(1998)
                                                                                                                                                                                                             Craniata; Vertebrata;
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                                                                                                                                                                                                                                  CHAIN VARIABLE
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hes 22;
                                                                                                                                               N.N.,
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                                                                                                                                                                                                   Hominidae;
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                                                                                            HISTOCOMPATIBILITY COMPLEX
                                                                                                                                                                                                                                             update)
                                                                                                                           carditis
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                                                                                                                                                                                                             Euteleostomi;
                                                                                                                                                                                                                                  REGION (FRAGMENT)
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Best Loc
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Best Local
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InterPro; IPR003596; -.
Pfam; PF00047; 1g; 1.
Pfam; SM00406; IGV; 1.
                                                                              Q9UL70;
01-MAY-2000
01-MAY-2000
01-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q9UL86;
Q9UL86;
01-MAY-2000
01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAY-2000 (TrEMBLrel. 16, Last annotation update)
01-MAY-2001 (TrEMBLrel. 16, Last annotation update)
MYOSIN-REACTIVE IMMUNOGLOBULIN LIGHT CHAIN VARIABI
HOMO Sapiens (Human).
Eukaryota, Metazoa; Chordata; Craniata; Vertebrati
Mammalia; Eutheria; Primates; Catarrhini; Hominida
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NON_TER
SEQUENCE
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MEDLINE-98277139; PubMed-9614934;
Van der Merwe P.L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MYOSIN-KERC...
Homo sapiens (Human).
Mortazoa; Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
MYOSIN-REACTIVE IMMUNOGLOBULIN HEAVY CHAIN VARIABLE
                                                                                                                                                                   Q9UL70
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DOMAIN.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WTQSPSSLSASVGDRVTITCRASQSI-SSYLNWYQQKPGKAPNLLIYAASSLQSGVPSRF
                                                                                                                                                                                                                                                                   ARFSGSGSGTSYSLTISSVEAEDAATYYCQQY-SGYRTFGGGTKLEIKR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     P01789;
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109 1
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                                                                                                                                                                 PRELIMINARY;
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  Chordata; Craniata; Vertebrata; Primates; Catarrhini; Hominidae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        31.1%;
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Pred. No. 7.7e
18; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 348.5; DB 4;
Pred. No. 1.3e-23;
5; Mismatches 24;
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No. 7.7e-24;
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    Hominidae;
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                                                             n update)
| VARIABLE
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                         Euteleostomi;
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                                                             REGION (FRAGMENT).
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                                                                                    NON_TER
NON_TER
SEQUENCE
                                                                                                                                                                                                                                                                                                   Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                     01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
MYOSIN-REACTIVE IMMUNOGLOBULIN HEAVY CHAIN VARIABLE
                                                                                                                                                              EMBL; AF035029; AAD56265.1; HSSP; P01607; 1REI.
                                                                                                                                                                                              Clin. Immunol. Immunopathol. 87:184-192(1998).
                                                                                                                                                                                                                                         Wu X., Liu B.,
Young D.C.;
                                                                                                                                                                                                                                                             SEQUENCE FROM N.A. MEDLINE-98277139; PubMed=9614934;
                                                                                                                                                                                                                                                                                                                                                                                    Q9UL85;
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InterPro; IPR003596; -.
Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; AF035044; AAD56280.1; HSSP; P01607; 1REI.
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                                                                                                                  SMART; SM00406; IGV; 1.
                                                                                                                              Pfam; PF00047;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       clin. Immunol. Immunopathol. 87:18
-!- SIMILARITY: TO IMMUNOGLOBULIN
                                                                                                                                                                                                                                                                                              NCBI_TaxID=9606;
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[1]
                                                                                                                                         InterPro;
                                                                                                                                                  InterPro;
                                                                                                                                                                                                                   tetus."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NON_TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            fetus."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Myosin-reactive autoantibodies in rheumatic carditis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  roung D.C.
                                                                                                                                                                                                                             Myosin-reactive autoantibodies in rheumatic carditis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                    63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
         1 ENVLTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVP 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4 LTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVPARF 63
                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                    DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                 SGSGSGTDFTLTISSLQPEDVATYYCQKYNSAPRTFGPGTKLEIKR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SGSGSGTSYSLTISSVEAEDAATYYCQQY-SGYRTFGGGTKLEIKR 108
                              67; Conserv
                                                                                                                          IPR003006; -.
IPR003596; -.
)0047; 19; 1.
                                                                                109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              108 AA;
                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                              PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                    ΑA;
                                                                                                                                                                                                                                                   Van
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Immunopathol. 87:184-192(1998)
                                                                                                                                                                                                                                                   der
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           der Merwe P.L.,
                                                                                    11761 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11633 MW; B7BEDC3E41FCCA37 CRC64;
                                        30.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30.9%;
                                                                                                                                                                                                                                                   Merwe
                              21;
                            Score 345.5; |
Pred. No. 2.4e
21; Mismatches
                                                                                                                                                                                                                                                  P.L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 346; DB 4;
Pred. No. 2.1e-23;
6; Mismatches 19
                                                                                                                                                                                                                                                                                                                                                                                              PRT;
                                                                                   FB1E43E7C7AFACCC CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AND MAJOR HISTOCOMPATIBILITY COMPLEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kalis N.N.,
                                                                                                                                                                                                                                                  Kalis N.N.,
                                                                                                                                                                                                                                                                                                                                                                                              109
                                                                                                                                                                                               MAJOR HISTOCOMPATIBILITY COMPLEX
                                        .4e-23;
                                                                                                                                                                                                                                                                                                                                                                                              AA
                                                  DB 4; Length
                              19;
                                                                                                                                                                                                                                                  Berney
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Berney
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                   108
                                                                                                                                                                                                                                                                                                                                        REGION (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            S.M
                                                                                                                                                                                                                                                   Ś
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                                                                                                                                                                                                                             normal
                              Ψ
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                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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                              2;
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RESULT 11
Q9UL81
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Q9UL79
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Best Local
                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q9UL79
Q9UL79;
01-MAY-2000
01-MAY-2000
01-MAR-2001
                                                                                                                                        Q9UL81 PRELIMINARY;
Q9UL81;
Q1-MAY-2000 (TrEMBLrel. 13,
Q1-MAY-2000 (TrEMBLrel. 13,
Q1-MAR-2001 (TrEMBLrel. 16,
                                                                                                                             01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
MYOSIN-REACTIVE IMMUNOGLOBULIN LIGHT CHAIN VARIABLE
                                                                                           Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                    NON_TER
                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro; IPR003596; -. Pfam; PF00047; ig; 1. SMART; SM00406; IGv; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
MYOSIN-REACTIVE IMMUNOGLOBULIN LIGHT CHAIN VARIABLE
"Myosin-reactive autoantibodies
fetus.";
                     Young D.C
                                 Wu X., Liu B.,
                                            SEQUENCE FROM N.A. MEDLINE-98277139;
                                                                                NCBI_TaxID=9606;
                                                                                                                    Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro;
InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; AF035035; AAI HSSP; P01607; 1REI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Clin. Immunol. Immunopathol.
-!- SIMILARITY: TO IMMUNOGLOB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Wu X., Liu B., Van
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Young D.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=98277139; PubMed=9614934;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    etus."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Myosin-reactive autoantibodies in
                                                                                                                                                                                                                                                     62
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                                                                                                                                                                                                                                                                                                                                                           Local Similarity
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                                                                                                                                                                                                                                                                                                               3 VLTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVPAR 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ш
                                                                                                                                                                                                                                                                                                 3 VMTQSPSLLSASTGDRVTISCRMSQGI-SSYLAWYQQKPGKAPELLIYAASTLQSGVPSR 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FSGSGSGTDFTLTISCLQSEDFATYYCQQYYSFPPTFGQGTKVEIKR
                                                                                                                                                                                                                                                                          FSGSGSGTSYSLTISSVEAEDAATYYCQQYSGY-RTFGGGTKLEIKR 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ARFSGSGSGTEFTLTISSLQSEDFAIYHCQQYNSWPPLTFGGGTKVEIKR 109
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IPR003006; -.
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                                                                                                                                                                                                                                                                                                                                                                                                         108 AA;
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                                  Van
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAD56271.1;
                                  PubMed=9614934;
n der Merwe P.L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IMMUNOGLOBULIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        der Merwe
                                                                                            Chordata;
Primates;
                                                                                                                                                                                                                                                                                                                                                                                                          11787
                                                                                                                                                                                                                                                                                                                                                           30.6%;
                                                                                                                                                                                                                                                                                                                                                                                                         MW;
                                                                                                                                                                                                                                                                                                                                                21;
                                                                                                                                                                                                                                                                                                                                              Score 343; DB Pred. No. 3.9e 21; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ٠.'
                                                                                                                                                                   Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         87:184-192(1998
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                                                                                            Craniata; Vertebrata;
Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                          DB5845F19724FB4E CRC64;
            'n
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                                  Kalis N.N.,
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            rheumatic
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.9e-23;
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                                                                                            Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HISTOCOMPATIBILITY COMPLEX
                                                                                                                                                                                                                                                                                                                                                18;
            carditis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                carditis and normal
                                  Berney
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Berney
                                                                                                                                                                                                                                                                                                                                                                     Length 108
                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                         Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Euteleostomi;
                                                                                                                                REGION (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REGION (FRAGMENT).
                                                                                                                                                                                                                                                     108
           and normal
                                  S.M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        S.
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RESULT
Q9UL83
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Best I
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Best Local Similarity
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                                                                                                                                                                       EMBL;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; AF03503
HSSP; P80362;
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                                                                                                                                                                                                                                                  SEQUENCE FROM N.A. MEDLINE=98277139; PubMed=9614934;
                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                       01-MAY-2000
01-MAR-2001
                                                                                                                                                                                                                                                                                                                                                         Q9UL83
                                                                                                            SEQUENCE
                                                                                                                     NON_TER
                                                                                                                                     SMART;
                                                                                                                                                       InterPro;
                                                                                                                                                              InterPro;
                                                                                                                                                                                                 -!- SIMILARITY:
                                                                                                                                                                                                                  fetus."
                                                                                                                                                                                                                                   Young
                                                                                                                                                                                                                                                                            NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                      Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                              MYOSIN-REACTIVE IMMUNOGLOBULIN LIGHT
                                                                                                                                                                                                                                                                                                                                        01-MAY-2000
                                                                                                                                                                                                                                                                                                                                               Q9UL83;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Clin.
                                                                                                                                                                                                                          Myosin-reactive autoantibodies in
60
               61
                                                                                                                                                                                                                                                                                                                                                                                                    63
                                                                                                                                                                                                                                                                                                                                                                                                                    64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                           X., Liu B., Van
                                                                                                                                                                                                                                                                                                                                                                                                                                      4
                                                                                                                                                                                                                                                                                                                                                                                                                                              Match
                                                                                                                                                                                         DOMAIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SIMILARITY:
                                                                                                                                                                                                                                                                                                                                                                                                            SGSGSGTSYSLTISSVEAEDAATYYCQQYSGYRTFGGGTKLEIKR
                                                                                                                                                                                                                                                                                                                                                                                                                                  HTQSPSSLSASVGDRVTTTCRASQSI-SNYLNWYQQKPGKAPNLLIYAASSLQSGVPSRF
         ARFSGSGSGTSYSLTISSVEAEDAATYYCQQYSGYR-TFGGGTKLEIKR 108
                                EIVMTQSPATLSVSPGERATLSCRASQSVSSN-LAWYQQKPGQAPRLLIYCASTRATGIP
                                         ENVLTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVP
                                                                                                                                                                                                                                                                                                                                                                                                 ARFSGSGSGTEFTLTISSLQFEDFAVYYCQHYNNWPFTFGPGTKVDIKR 108
                                                                                                                                             PF00047;
                                                                                                                                                                                                                                   U
                                                                                                                                                                        P01607;
                                                                                                                                                                                AF035031;
                                                                                                                                                                                                           Immunol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Immunol. Immunopathol. 87:184-192(1998).
IMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AF035033;
                                                                                                                                      SM00406;
                                                                  67;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        65;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                   ; IPR003006; -.; IPR003596; -.
; IPR003596; -.
00047; ig; 1.
M00406; IGV; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IPR003006; -.
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107
                                                                                                            108
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                            AA;
                                                                                                                                                                                                 Immunopathol. 87:18: TO IMMUNOGLOBULIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AA;
                                                                                                                                                                                AAD56267.1;
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                                                                                                           108
11834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  107
11501 MW;
                                                                                                                                                                                                                                           der Merwe
                                                                                                                                                                                                                                                                                    Chordata;
Primates;
                                                                          30.4%;
61.5%;
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                                                                                                             MW.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21;
                                                                  19;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 341.5;
Pred. No. 5.2e
21; Mismatches
                                                                          Score 341;
Pred. No. 5
                                                                                                                                                                                                           87:184-192(1998)
                                                                                                                                                                                                                                           P.L.,
                                                                                                                                                                                                                                                                                     Craniata; V
Catarrhini;
                                                                                                            9F9C5A92EBA96EEA CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  070549FDE0754748
                                                                  Mismatches
                                                                                                                                                                                                  AND
                                                                                                                                                                                                                          rheumatic
                                                                                                                                                                                                                                           Kalis N.N.,
                                                                                                                                                                                                                                                                                                                                                        108
                                                                                                                                                                                                 MAJOR
                                                                                                                                                                                                                                                                                     Vertebrata; Euteleostomi;
i; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .2e-23
                                                                           .8e-23;
                                                                                   DB 4;
                                                                                                                                                                                                                                                                                                                                                        A
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                                                                                                                                                                                                 HISTOCOMPATIBILITY COMPLEX
                                                                                                                                                                                                                          carditis
                                                                                                                                                                                                                                          Berney S.M
                                                                                 Length 108;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                    108
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        107;
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                                                                 2;
                                                                Gaps
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                                                 60
                                                                                                                                                                                                                                                                                                                                                                                                                                     62
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Q9YFO
ID QYFO
ID QYFO
ID QYFO
ID QYFO
Q9
DT 011
DT 
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Q9JL84
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Best Local S
Matches 70
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Submittea ....
EMBL; AB036341; BAAbov.
HSSP; P01607; IREI.
HSSP; IPR003006; -.
Interpro; IPR003006; -.
Interpro; IPR003596; -.
Ffam; PF00047; ig; I.
SMART; SM00406; IGV; I.
NON TER
                                                                                                                                                                                                                                                                                                                                                                                           Q9JL84;
Q9JL84;
01-OCT-2000
01-OCT-2000
01-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q9QYF0;
Q9QYF0;
01-MAY-2000
01-MAY-2000
01-MAR-2001
                                                                                                       STRAIN-BALB/C;

Malkiel S., Liao L., Cunningham M.W., Diamond B.;

"Characterization of cross-reactive monoclonal anti-myosin/anti-n-
acetyl-glucosamine antibodies from mice with autoimmune myocarditi
Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.

EMBL; AF206022; AAF69320.1; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN-BALB/C; TISSUE-SPLEEN;
shinohara N., Demura T., Fukuda H.;
"Isolation of a novel type of vascular cell wall-specific mantibody recognizing a cell polarity using a phage display
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
STRAIN=BALB/C; TISSUE=SPLEEN;
Shinohara N., Demura T., Fuku
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CN 8.
                                                                                                                                                                                                                                                                                                       Mus musculus (Mouse
Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro; IPR003596; -
Pfam; PF00047; 1g; 2.
SMART; SM00406; IGv; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                         ANTI-MYOSIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mus musculus
                                                                                                                                                                                                                                                                                 NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       method."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SGSGSGTSYSLTISSVEAEDAATYYCQQY--SGYRTFGGGTKLEIKRADAAPTV 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SGSGSGTQYSLKINSLQPEDFGSYYCQHFWTTPY-TFGGGTKLEIKRAAAGAPV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SCFV
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70; Conserv
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                                                                                                                                                                                                                                                                                   s (Mouse).

Metazoa; Chordata; C
Metazoa; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              298 AA;
                                                                                                                                                                                                                                                                                                                                                                    (TrEMBLrel. 15, Created)
(TrEMBLrel. 15, Last sequence update)
(TrEMBLrel. 16, Last annotation update)
IMMUNOGLOBULIN LIGHT CHAIN VARIABLE REGION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (Mouse).
etazoa; Chordata;
theria; Rodentia;
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Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 340; DB 11;
Pred. No. 2.4e-22;
6; Mismatches 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Created)
                                                                                                                                                                                                                                                                                                     Craniata; Vertebrata; | Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Craniata; Vertebrata; Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRT;
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; Murinae; Mus
                                                                                                                                                                                                                                                                                                       Euteleostomi;
Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                         (FRAGMENT)
                                                                                                                                                    myocarditis.";
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Best Local S
Matches 63
                                                                                                                                                                                                      Query Match 26.6%; Score 298; DB 11; Best Local Similarity 63.2%; Pred. No. 3.3e-19; Matches 60; Conservative 14; Mismatches 19;
                                                                                                                                                                                                                                                                                          STRAIN-BALB/C;

Malkiel S., Liao L., Cunningham M.W., Dlamond B.;

Malkiel S., Liao L., Cunningham M.W., Dlamond B.;

"Characterization of cross-reactive monoclonal anti-myosin/anti-n-
acetyl-glucosamine antibodies from mice with autoimmune myocarditis.";

Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.

EMBL; AF206032; AAF69330.1; -.

InterPro; IPR003006; -.

InterPro; IPR003006; -.

Pfam; PF00047; ig; 1.

SMART; SM00406; IGV; 1.

SMART; SM00406; IGV; 1.

SMART; SM00406; IGV; 1.

SMART; SM00406; IGV; 1.

NON_TER 99 99

Plant PROSENTAL SMART; SMO0406; IGV; 1.
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SEQUENCE
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Q9JL74;
                                                                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
ANTI-MYOSIN IMMUNOGLOBULIN LIGHT CHAIN VARIABLE REGION (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                          Local Similarity 60.0
mes 63; Conservative
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                                                                                                                                                                                                                                                                                       99 AA; 10939 MW; 3B25D0E784533324 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         107
107 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         107
11648 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          27.4%; Score 307; DB 11; Length 107; 60.0%; Pred. No. 5.7e-20; ative 15; Mismatches 25; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRT;
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                                                                                                                                                                                                                                      Length 99;
                                                                                                                                                                                                        Indels
                                                                                                                                                                                                        2;
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